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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,835	03/19/2004 Ramarathnam Venkatesan		MS1-1286US	7125
22801 LEE & HAYES	7590 12/16/200 S, PLLC	EXAMINER		
601 W. RIVER	SIDE AVENUE	PERUNGAVOOR, VENKATANARAY		
SUITE 1400 SPOKANE, WA	A 99201	ART UNIT	PAPER NUMBER	
			2432	
		MAIL DATE	DELIVERY MODE	
			12/16/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		/	Application No.		Applicant(s)			
			10/804,835		VENKATESAN ET AL.			
		E	Examiner		Art Unit			
			/enkat Perungavoor		2432			
Period fo	The MAILING DATE of this communi or Reply	ication appea	ers on the cover she	et with the co	orrespondence ad	ldress		
WHIC - Exter after - If NC - Failu Any (	CRTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSING (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	AILING DAT of 37 CFR 1.136(i unication. ututory period will i will, by statute, ca	E OF THIS COMMI a). In no event, however, m apply and will expire SIX (6) use the application to become	UNICATION tay a reply be time MONTHS from to the ABANDONED	l. ely filed the mailing date of this c O (35 U.S.C. § 133).			
Status								
1)⊠	Responsive to communication(s) file	d on 17 Sep	tember 2008					
2a)□	•		ction is non-final.					
3)	Since this application is in condition	<i>′</i> —		matters, pro	secution as to the	e merits is		
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) <u>1,3-5,7-37</u> is/are pending in	the applicat	ion.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) 20-37 is/are allowed.							
	☑ Claim(s) <u>1 and 13</u> is/are rejected.							
· · · · ·	Claim(s) <u>3-5,7,8 and 14-19</u> is/are obj	iected to.						
•	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□	The specification is objected to by the	e Examiner.						
•	The drawing(s) filed on is/are:		ted or b)∏ objected	d to by the E	xaminer.			
,	Applicant may not request that any object	-	· -	-				
	Replacement drawing sheet(s) including			_		FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	Paper 5) Notice	riew Summary ( r No(s)/Mail Da e of Informal Pa :				

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/17/2008 has been entered.

## Response to Arguments

Applicant's arguments with regard to Claims 1, 3-5, and 7-37 are persuasive.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 9-12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims do not produce a tangible result, that is, the calculations result in a cipher, which is not directed to a tangible result. The claim appears to be reduced to a mathematical calculation, and does not express state the purpose of the calculation (i.e. producing signature similar to Claim 1).

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Claims 1, 3-5, 7-12, 20-27, and 35-37 are rejected under 35 U.S.C. 101 as directed to non-statutory subject matter.

The instant claims recite "computer readable medium" which are defined on page 37 as including "communication media", see lines 18-19.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 13 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites  $\alpha$ , which is a private key, and this key is being generated based on itself. That is, the key is a summation of a product of  $v_i$ ,  $\alpha_i$ , and mod m. But  $\alpha_i$  vector is never defined.

Claim 13 recites m, but fails to define what m is. That is, m is defined as order of torsion points as recited in Claim 1, but is not included in the recitation of Claim 13.

# Allowable Subject Matter

Claims 1, 3-5, and 7-37 are allowed over the cited prior art.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is (571)272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to

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reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. P./ Examiner, Art Unit 2432 October 22, 2008

/Gilberto Barron Jr/ Supervisory Patent Examiner, Art Unit 2432